ABSTRACT

A hydraulic governor device for use with a rotational shaft of a door assembly for controlling a rotation of said rotational shaft. The device includes a sleeve; first and second end coverings mounted respectively onto first and second ends of the sleeve so as to define an hydraulic flow path; a fluid substantially filling the hydraulic flow path; an input shaft extending through the ends coverings and the chamber, and being operatively connected to the rotational shaft of the door assembly; first and second pistons disks positioned inside the chamber and mounted about the input shaft, the pistons disks being connected to each other and being slidably movable along the input shaft; and a reciprocating assembly operatively connected between the input shaft and the piston disks and cooperating with the same for converting a rotation of the input shaft into a reciprocating movement of the pistons disks within a chamber, so that said reciprocating movement of the pistons disks inside the chamber causes in turn the fluid to travel along a reciprocating movement along the hydraulic flow path, said reciprocating movement of the fluid along the hydraulic flow path causing a damping effect of the rotation of the input shaft and thus controlling the rotation of the rotational shaft of the door assembly via a damping effect.